G. Havell,

Skate.

No. 83631. Patented Nov. 3, 1868.

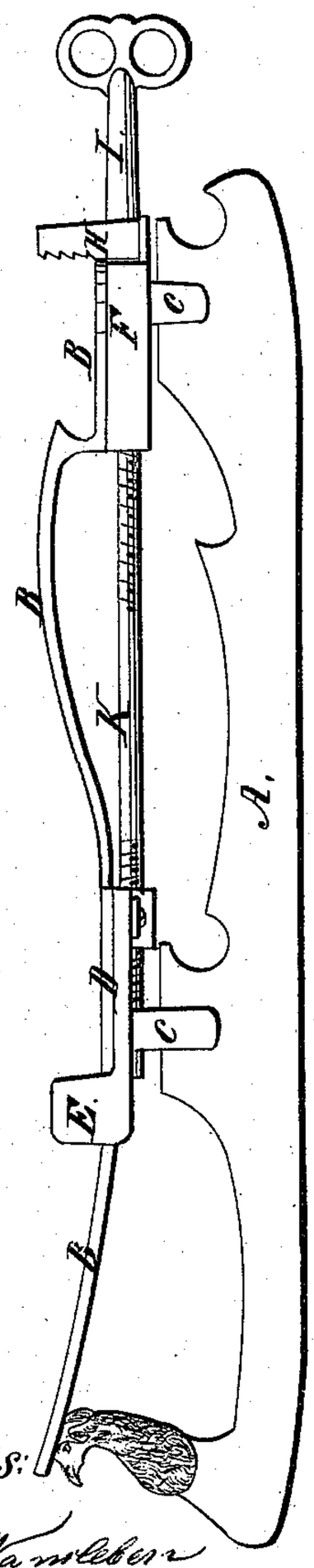

Fig. 1.

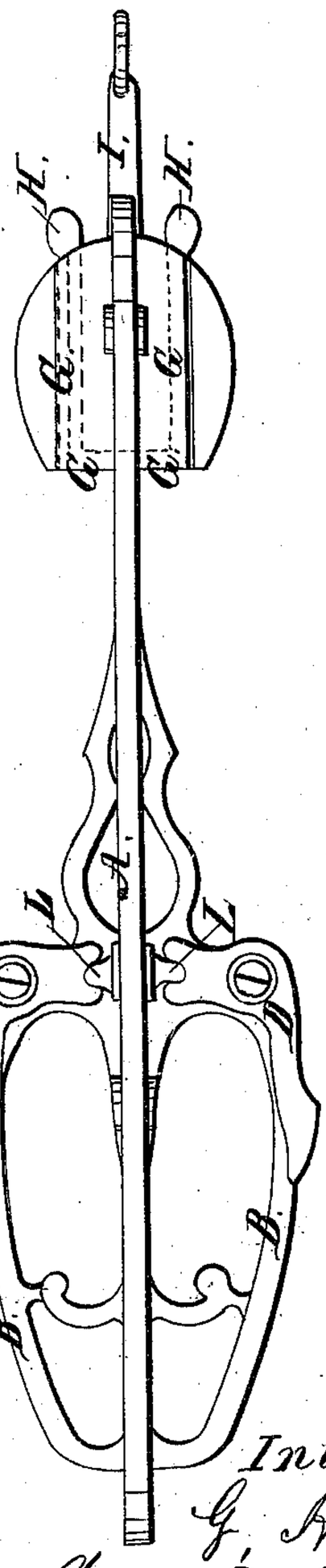

Fig. 2.

Witnesses:

Wm Wamsley

Leopold Dierks

Inventor:

G. Havell

per Alexander Hudson

Atty.

United States Patent Office.

GEORGE HAVELL, OF NEWARK, NEW JERSEY.

Letters Patent No. 83,631, *dated November* 3, 1868.

IMPROVEMENT IN SKATES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE HAVELL, of the city of Newark, in the county of Essex, and in the State of New Jersey, have invented certain new and useful Improvements in Skates; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the manner of fastening the skate at the heel by means of an angular bar turned up at its ends, and corrugated so as to form a clamp, which angular bar slides in a box under the heel-piece, and is connected with the clamps on the sides holding the foot by means of a screw-rod passing through and working the angular bar at the heel as well as the clamps on the sides.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a side view, and

Figure 2 a bottom view.

A represents the skate secured to the foot-plate B by means of the standards *c c*, and on the front part of the skate. On the bottom of the foot-plate two levers, D D, are pivoted, the ends of which are bent upwards, and corrugated on their inside, so as to form the clamps E E, one on each side of the foot. The other ends of the levers D D are forked so as to enclose the rounded lugs on the nut L, in which nut the screw-rod K works. This screw-rod extends under the foot-plate B, and through the angular bar G, out under the heel-part of the plate. The angular bar G slides in the box F, under the heel of the foot-plate, and its ends are bent upwards in rear of the heel and corrugated, so as to form clamps, H H, to hold the foot steady on the skate.

By turning the screw-rod K with the key I, the angular bar G, with clamps H H, is moved forward, and at the same time the nut L moves backward, turning the levers D D, so that the clamps E E moves inward, and the foot is securely fastened on the plate.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The angular sliding bar G, encased in the box F, and provided with clamps, H H, and operated by means of the screw-rod I, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 12th day of May, 1868.

GEORGE HAVELL.

Witnesses:

JOHN NESTLE KERR,

DAVID A. COGAN.